A purified antibody that specifically binds to the protein of claim 8.

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1		14.	A scre	eening method for identifying a substance that modulates binding of an XB3	
2	protein to XA21, the method comprising the steps of:				
3			(a)	providing a sample containing the XB3 protein;	
4			(b)	adding to the sample a candidate substance;	
5			(c)	adding to the sample XA21; and	
6			(d)	detecting an increase or decrease in binding of the XB3 protein to XA21	
7	in the p	in the presence of the candidate substance, compared to the binding of the XB3 protein to XA21			
8	in the absence of the candidate substance, as an indication that the candidate substance				
9	modulates binding of XB3 protein to XA21.				
,					
ļ_		15.	A met	hod of producing an XB3 protein comprising the steps of:	
2 <u>D</u>			(a)	providing a cell transformed with an isolated nucleic acid comprising a	
311	nucleotide sequence that encodes an XB3 protein;				
40			(b)	culturing the cell under conditions that allow expression of the XB3	
5=	protein	; and			
			(c)	collecting the XB3 protein from the cultured cell.	
and bridge					
<u>19</u>		16.	A scre	ening method for identifying a substance that modulates expression of a	
Ž-1	gene encoding XB3, the method comprising the steps of:				
3			(a)	providing a test cell;	
4			(b)	contacting the test cell with a candidate substance; and	
5			(c)	detecting an increase or decrease in the expression level of the gene	
6	encoding XB3 in the presence of the candidate substance, compared to the expression level of				
7	the gene encoding XB3 in the absence of the candidate substance, as an indication that the				

candidate substance modulates the level of expression of the gene encoding XB3.

The antibody of claim 12, further comprising a detectable label.

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1	17. A method for isolating a substance that binds XB3 comprising the steps of:				
2		(a) providing a sample of an immobilized XB3;			
3		(b) contacting a mixture containing the XB3-binding substance with the			
4	immobilized 2	XB3;			
5		(c) separating unbound components of the mixture from bound components			
6	of the mixture; and				
7		(d) recovering the XB3-binding substance from the immobilized XB3			
8	protein.				
1	18.	The method of claim 17, wherein the XB3-binding substance is XA21.			
1	19.	A method of modulating disease resistance in a plant cell or seed, the method			
	comprising the steps of:				
4D 4D	comprising the				
jŌ		(a) providing a plant cell or seed having a first disease resistance phenotype;			
45		(b) introducing into the plant cell or seed a purified nucleic acid comprising a			
5 <u>7</u>	nucleotide sequence that encodes a naturally occurring protein that: shares at least 80% sequence				
6=	identity with SEQ ID NO:2 and has at least one functional activity of native XB3 to create a				
73	transformed plant cell or seed,				
81		wherein the purified nucleic acid is selected such that it produces a second			
7273047707 75097	disease resistance phenotype in the transformed plant cell or seed that differs from the first				
10≟	disease resistance phenotype.				
1	20.	The method of claim 19, wherein the naturally occurring protein lacks at least one			
2	functional activity of native XB3 selected from the group consisting of: ability to bind XA21,				
3	ability to be phosphorylated by XA21, and ubiquitin ligase activity.				

- ₽.*· 1 21. A method of modulating disease resistance in a plant cell or seed, the method 2 comprising the steps of: 3 (a) providing a plant cell or seed having a first disease resistance phenotype: 4 (b) introducing into the plant cell or seed a purified nucleic acid that 5 modulates expression of native XB3 to create a transformed plant cell or seed, 6 wherein the purified nucleic acid is selected such that it produces a second 7 disease resistance phenotype in the transformed plant cell or seed that differs from the first 8 disease resistance phenotype. 1 22. The method of claim 21, wherein the purified nucleic acid hybridizes under 2 stringent hybridization conditions to a nucleic acid selected from the group consisting of SEO ID 3 NO:1 and the complement of SEQ ID NO:1. 23. A method of modulating disease resistance in a plant cell or seed, the method
 - comprising the steps of:
 - providing a plant cell or seed having a first disease resistance phenotype; (a)
 - (b) introducing into the plant cell or seed a purified nucleic acid that encodes a polypeptide that inhibits a functional activity of native XB3 to to create a transformed plant cell or seed;
 - (c) culturing the transformed plant cell or seed under conditions in which the polypeptide is expressed,

wherein expression of the polypeptide in the transformed plant cell or seed produces a second disease resistance phenotype in the transformed plant cell or seed that differs from the first disease resistance phenotype.

24. The method of claim 23, wherein the polypeptide shares at least 80% sequence identity with SEQ ID NO:2 and has at least one functional activity of native XB3.

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